

OIPE

## RAW SEQUENCE LISTING

DATE: 08/15/2001

PATENT APPLICATION: US/09/851,271A

TIME: 14:17:39

Input Set : A:\00022799.txt

Output Set: N:\CRF3\08152001\I851271A.raw

ENTERED

3 <110> APPLICANT: Gendaq Limited  
 5 <120> TITLE OF INVENTION: Screening System  
 7 <130> FILE REFERENCE: 674538-2003  
 9 <140> CURRENT APPLICATION NUMBER: 09/851,271A  
 10 <141> CURRENT FILING DATE: 2001-05-08  
 12 <150> PRIOR APPLICATION NUMBER: PCT/GB99/03730  
 13 <151> PRIOR FILING DATE: 1999-11-09  
 15 <150> PRIOR APPLICATION NUMBER: GB9824544.2  
 16 <151> PRIOR FILING DATE: 1998-11-09  
 18 <160> NUMBER OF SEQ ID NOS: 16  
 20 <170> SOFTWARE: PatentIn version 3.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 264  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Artificial Sequence  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: misc\_structure  
 29 <222> LOCATION: (1)..(264)  
 30 <223> OTHER INFORMATION: sequence coding for a zinc finger protein  
 33 <400> SEQUENCE: 1  
 34 gcagaagaga agccttttca gtgtcgaaatc tgcatacgta acttcagcga tcgtagtagt 60  
 36 cttaccgcgc acacaggagc ccacacaggc gagaagcctt ttcagtgtcg aatctgcatg 120  
 38 cgtaacttca gcaggagcga taaccttacg agacacctaa ggaccacacac aggcgagaag 180  
 40 ccttttcagt gtcgaatctg catgcgtaac ttcaggcaag ctgatcatct tcaagagcac 240  
 42 ctaaagaccc acacaggcga gaag 264  
 45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 88  
 47 <212> TYPE: PRT  
 48 <213> ORGANISM: Artificial Sequence  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: ZN\_FING  
 52 <222> LOCATION: (1)..(88)  
 53 <223> OTHER INFORMATION: protein sequence encoding a zinc-finger domain  
 56 <400> SEQUENCE: 2  
 58 Ala Glu Glu Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser  
 59 1 5 10 15  
 61 Asp Arg Ser Ser Leu Thr Arg His Thr Arg Thr His Thr Gly Glu Lys  
 62 20 25 30  
 64 Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asn  
 65 35 40 45  
 67 Leu Thr Arg His Leu Arg Thr His Thr Gly Glu Lys Pro Phe Gln Cys  
 68 50 55 60  
 70 Arg Ile Cys Met Arg Asn Phe Arg Gln Ala Asp His Leu Gln Glu His  
 71 65 70 75 80  
 73 Leu Lys Thr His Thr Gly Glu Lys  
 74 85  
 76 <210> SEQ ID NO: 3

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77 <211> LENGTH: 31
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial Sequence
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82 <223> OTHER INFORMATION: Sequence of the Zince Finger Framework
84 <220> FEATURE:
85 <221> NAME/KEY: UNSURE
86 <222> LOCATION: (1)..(31)
87 <223> OTHER INFORMATION: 'X' can be any amino acid as described in the specification
90 <400> SEQUENCE: 3
W--> 92 Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
93 1 5 10 15
W--> 95 Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa His
96 20 25 30
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 31
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Sequence of the Zince Finger Framework
106 <220> FEATURE:
107 <221> NAME/KEY: UNSURE
108 <222> LOCATION: (1)..(31)
109 <223> OTHER INFORMATION: 'X' can be any amino acid as described in the specification
112 <400> SEQUENCE: 4
W--> 114 Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
115 1 5 10 15
W--> 117 Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa Cys
118 20 25 30
120 <210> SEQ ID NO: 5
121 <211> LENGTH: 24
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Sequence of the Zinc Finger Nucleic Acid Binding Motifs
128 <220> FEATURE:
129 <221> NAME/KEY: UNSURE
130 <222> LOCATION: (1)..(24)
131 <223> OTHER INFORMATION: 'X' can be any amino acid as described in the specification
134 <400> SEQUENCE: 5
W--> 136 Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
137 1 5 10 15
W--> 139 Leu Xaa Xaa His Xaa Xaa Xaa His
140 20
142 <210> SEQ ID NO: 6
143 <211> LENGTH: 4
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:

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148 <221> NAME/KEY: PEPTIDE  
 149 <222> LOCATION: (1)..(4)  
 150 <223> OTHER INFORMATION: linker ✓  
 153 <400> SEQUENCE: 6  
 155 Thr Gly Glu Lys  
 156 1  
 158 <210> SEQ ID NO: 7  
 159 <211> LENGTH: 5  
 160 <212> TYPE: PRT  
 161 <213> ORGANISM: Artificial Sequence ✓  
 163 <220> FEATURE:  
 164 <221> NAME/KEY: PEPTIDE  
 165 <222> LOCATION: (1)..(5)  
 166 <223> OTHER INFORMATION: linker ✓  
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 171 Thr Gly Glu Lys Pro  
 172 1 5  
 174 <210> SEQ ID NO: 8  
 175 <211> LENGTH: 26  
 176 <212> TYPE: PRT  
 177 <213> ORGANISM: Artificial Sequence ✓  
 179 <220> FEATURE:  
 180 <221> NAME/KEY: ZN\_FING  
 181 <222> LOCATION: (1)..(26)  
 182 <223> OTHER INFORMATION: zinc finger consensus structure ✓  
 185 <400> SEQUENCE: 8  
 187 Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp  
 188 1 5 10 15  
 190 Leu Val Lys His Gln Arg Thr His Thr Gly  
 191 20 25  
 193 <210> SEQ ID NO: 9  
 194 <211> LENGTH: 29  
 195 <212> TYPE: PRT  
 196 <213> ORGANISM: Artificial Sequence ✓  
 198 <220> FEATURE:  
 199 <221> NAME/KEY: ZN\_FING  
 200 <222> LOCATION: (1)..(29)  
 201 <223> OTHER INFORMATION: zinc finger consensus structure ✓  
 204 <400> SEQUENCE: 9  
 206 Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn  
 207 1 5 10 15  
 209 Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro  
 210 20 25  
 212 <210> SEQ ID NO: 10  
 213 <211> LENGTH: 6  
 214 <212> TYPE: PRT  
 215 <213> ORGANISM: Artificial Sequence ✓  
 217 <220> FEATURE:  
 218 <221> NAME/KEY: PEPTIDE

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219 <222> LOCATION: (1)..(6)  
 220 <223> OTHER INFORMATION: leader peptide ✓  
 223 <400> SEQUENCE: 10  
 225 Met Ala Glu Glu Lys Pro  
 226 1 5  
 228 <210> SEQ ID NO: 11  
 229 <211> LENGTH: 4  
 230 <212> TYPE: PRT  
 231 <213> ORGANISM: Artificial Sequence ✓  
 233 <220> FEATURE:  
 234 <221> NAME/KEY: PEPTIDE  
 235 <222> LOCATION: (1)..(4)  
 236 <223> OTHER INFORMATION: smallest unit of stalling polypeptide sequence ✓  
 239 <400> SEQUENCE: 11  
 241 Ala Ala Val Pro  
 242 1  
 244 <210> SEQ ID NO: 12  
 245 <211> LENGTH: 24  
 246 <212> TYPE: PRT  
 247 <213> ORGANISM: Artificial Sequence ✓  
 249 <220> FEATURE:  
 250 <221> NAME/KEY: PEPTIDE  
 251 <222> LOCATION: (1)..(24)  
 252 <223> OTHER INFORMATION: linker sequence followed by the stalling polypeptide ✓  
 sequence  
 255 <400> SEQUENCE: 12  
 257 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 258 1 5 10 15  
 260 Gly Gly Gly Ser Ala Ala Val Pro  
 261 20  
 263 <210> SEQ ID NO: 13  
 264 <211> LENGTH: 23  
 265 <212> TYPE: DNA  
 266 <213> ORGANISM: Artificial Sequence ✓  
 268 <220> FEATURE:  
 269 <221> NAME/KEY: promoter  
 270 <222> LOCATION: (1)..(23)  
 271 <223> OTHER INFORMATION: bacteriophage T7 RNA polymerase promoter sequence ✓  
 274 <400> SEQUENCE: 13  
 275 taatacgact aactataggg aga 23  
 278 <210> SEQ ID NO: 14  
 279 <211> LENGTH: 6  
 280 <212> TYPE: DNA  
 281 <213> ORGANISM: Artificial Sequence ✓  
 283 <220> FEATURE:  
 284 <221> NAME/KEY: RBS  
 285 <222> LOCATION: (1)..(6)  
 286 <223> OTHER INFORMATION: bacteriophage T7, gene 10 ribosome binding site ✓  
 289 <400> SEQUENCE: 14  
 290 aaggag 6

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Input Set : A:\00022799.txt

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293 <210> SEQ ID NO: 15  
294 <211> LENGTH: 18  
295 <212> TYPE: DNA  
296 <213> ORGANISM: Artificial Sequence ✓  
298 <220> FEATURE:  
299 <221> NAME/KEY: misc\_feature  
300 <222> LOCATION: (1)..(18)  
301 <223> OTHER INFORMATION: DNA sequence encoding the ribosome stalling peptide sequence ✓  
304 <400> SEQUENCE: 15  
305 atggttaaaa cagataaa 18  
308 <210> SEQ ID NO: 16  
309 <211> LENGTH: 6  
310 <212> TYPE: PRT  
311 <213> ORGANISM: Artificial Sequence ✓  
313 <220> FEATURE:  
314 <221> NAME/KEY: PEPTIDE  
315 <222> LOCATION: (1)..(6)  
316 <223> OTHER INFORMATION: ribosome stalling peptide sequence ✓  
319 <400> SEQUENCE: 16  
321 Met Val Lys Thr Asp Lys  
322 1 5

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/851,271A

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Input Set : A:\00022799.txt

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L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5